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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/592,003	09/07/2006	Kouji Kawamura	1033318-00035	6773
	7590 05/30/200 INGERSOLL & ROOI	EXAMINER		
POST OFFICE		MUSLEH, MOHAMAD A		
ALEAANDRIA	A, VA 22313-1404		ART UNIT	PAPER NUMBER
			2832	
			NOTIFICATION DATE	DELIVERY MODE
			05/30/2008	ELECTRONIC

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

ADIPFDD@bipc.com

Office Action Summary		A	pplication No.	Applicant(s)	Applicant(s)			
		1	0/592,003	KAWAMURA ET	KAWAMURA ET AL.			
		E	xaminer	Art Unit				
		М	OHAMAD A. MUSLEH	2832				
Period f	The MAILING DATE of this communor Reply	nication appear	s on the cover sheet wit	h the correspondence a	ddress			
WHIO - Exte afte - If No - Faile Any	IORTENED STATUTORY PERIOD FOR CHEVER IS LONGER, FROM THE INTENTION OF THE	MAILING DATE s of 37 CFR 1.136(a) munication. tatutory period will ap y will, by statute, cau	E OF THIS COMMUNIC In no event, however, may a reply and will expire SIX (6) MONT se the application to become ABA	CATION. ply be timely filed THS from the mailing date of this ANDONED (35 U.S.C. § 133).				
Status								
1)[\]	Responsive to communication(s) file	ed on <i>04 Marc</i>	h 2008					
2a)□	•		tion is non-final.					
3)		<i>/</i> —		ers prosecution as to th	ne merits is			
<i>ت,</i> ت	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.							
Disposit	ion of Claims							
4)🖂	Claim(s) <u>1-8</u> is/are pending in the application.							
,	4a) Of the above claim(s) is/are withdrawn from consideration.							
5)□	Claim(s) is/are allowed.							
	Claim(s) <u>1-8</u> is/are rejected.							
7)	Claim(s) is/are objected to.							
	Claim(s) are subject to restri	ction and/or ele	ection requirement.					
Applicat	ion Papers							
9)□	The specification is objected to by the	ne Examiner						
•	10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.							
	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
					ER 1 121(d)			
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.								
Priority	under 35 U.S.C. § 119							
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of:								
	1.☐ Certified copies of the priority	documents ha	ave been received.					
	2. Certified copies of the priority documents have been received in Application No							
	3. Copies of the certified copies	of the priority	documents have been i	received in this Nationa	I Stage			
	application from the Internation	onal Bureau (P	CT Rule 17.2(a)).					
* See the attached detailed Office action for a list of the certified copies not received.								
Attachmer	nt(s)							
	ce of References Cited (PTO-892)			ummary (PTO-413)				
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date Notice of Informal Patent Application								
Paper No(s)/Mail Date 6) Other:								

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DETAILED ACTION

Response to Arguments

1. Applicant's arguments filed on **03/04/2008** with respect to **claim 1** have been fully considered and are persuasive. The **rejection** of **01/15/2008** has been withdrawn.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

- (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 2. Claims 1,7 and 8 are rejected under 35 U.S.C. 103(a) as being unpatentable over Leitl et al. US 7,135,953 B2 [leitl] in view of Larranaga et al. US 6,466,424 B1 [Larranaga].
- 3. Regarding claims 1 and 8, at [figs. 6-13] leitI teaches a thermal trip device [1] in which a bimetal [3/4] is heated by over current and performs trip operation of a circuit by curvature of the heated bimetal [abstract]. But leitI does not teach that the surface of a temperature measurement part of the bimetal is a bending part and made to be black.

Larranaga teaches that it is known to have a bend target with black color to be monitored for temperature, as set forth at [col. 3, lines 13-43]. It would have been obvious to one having ordinary skill in the art at the time the invention was made to modify leitl's teachings in order to have a black part as taught by

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Larranaga to increase the heat emissivity of the target which is detected by a heat sensor for testing and monitoring.

- 4. Claims 2-6 are rejected under 35 U.S.C. 103(a) as being unpatentable over Larranaga as applied to claim 1 above, and further in view of GB 1,419,528[GB528].
- 5. Regarding claims 2-6, leitl and Larranaga disclose the claimed invention except for that the temperature measurement part of the bi-metal is made to be matte black. GB528 teaches that it is known to use a matte black layer on a bi-metal strip as set forth at [page 2, lines 21-26]. It would have been obvious to one having ordinary skill in the art at the time the invention was made to modify leitl's teachings in order to have a matte black part as taught by GB528 to increase the heat emissivity of the target which is detected by a heat sensor for testing and monitoring.

Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. See the notice of references cited (PTO-892). Any inquiry concerning this communication or earlier communications from the examiner should be directed to **Mohamad A. Musleh** whose telephone number is (571) 272-9086. The examiner can normally be reached on M-F (7:30-5:00 Est. Time) 1st Friday Off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, **Elvin G. Enad** can be reached on **(571) 272-1990**. The

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fax phone number for the organization where this application or proceeding is assigned is (571) 273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Elvin G Enad/

/Mohamad A Musleh/ Examiner, Art Unit 2832

Supervisory Patent Examiner, Art Unit 2832